

EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|--------|--|--|------------------|---------|------------------|
| L2 | 144246 | second same (record\$4 stor\$4) same layer\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2012/01/12 13:22 |
| L3 | 235106 | (two second) same (record\$4 stor\$4) same layer\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2012/01/12 13:22 |
| L4 | 313058 | (two second dual double multi\$4 plural\$4) same (record\$4 stor\$4) same layer\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2012/01/12 13:22 |
| L5 | 151658 | (alternat\$4 switch\$4 intermittent\$4 vacillat\$4 oscillat\$4 shift\$4 chang\$4) same (record\$4 stor\$4) same layer\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2012/01/12 13:34 |
| L6 | 98857 | 4 and 5 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2012/01/12 13:34 |
| L7 | 26169 | opposite near3 track | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2012/01/12 13:35 |
| L8 | 1055 | 6 and 7 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2012/01/12 13:35 |

EAST Search History (Prior Art)

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| L9 | 163 | L8 and border\$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2012/01/12 13:35 |
| L10 | 441033 | ((opposite near3 track) ((inner outer) near3 circumferen\$4)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2012/01/12 13:39 |
| L11 | 4123 | 6 and 10 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2012/01/12 13:39 |
| L12 | 379 | L11 and border\$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2012/01/12 13:40 |
| L13 | 1215935 | (alternat\$4 switch\$4 intermittent\$4 vacillat\$4 oscillat\$4 shift\$4 chang\$4 jump\$4 focus\$4) same layer\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2012/01/12 13:41 |
| L14 | 157455 | 4 and 13 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2012/01/12 13:42 |
| L15 | 5757 | 10 and 14 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2012/01/12 13:42 |

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| L16 | 513 | L15 and border\$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2012/01/12 13:42 |
| L17 | 234289 | (anchor file control) same (information data) same updat\$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2012/01/12 13:44 |
| L18 | 106 | 16 and 17 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2012/01/12 13:44 |
| L19 | 78 | L18 and (address location area) and flag | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2012/01/12 13:46 |
| L20 | 286 | (369/30.03).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2012/01/12 13:47 |
| L21 | 3 | 19 and 20 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2012/01/12 13:50 |
| L22 | 1303 | record\$4 same back same forth same layer\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2012/01/12 14:14 |
| L23 | 898 | 13 and 22 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2012/01/12 14:14 |

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| L24 | 788 | 4 and 23 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2012/01/12 14:14 |
| L25 | 23 | 10 and 24 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2012/01/12 14:15 |
| L26 | 3 | "20070201343" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2012/01/12 14:26 |
| L34 | 12 | US-20020136134-\$.DID. OR US-20040114474-\$.DID. OR US-20040174793-\$.DID. OR US-1298666-\$. DID. OR EP-20030402-\$.DID. OR WO-20030508-\$.DID. OR WO-20040916-\$. DID. OR US-1729298-\$.DID. OR EP-20061206-\$.DID. OR US-1331018-\$.DID. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2012/01/12 14:36 |
| S1 | 1 | "10577225" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2012/01/09 12:35 |
| S2 | 2 | "20030059205" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2012/01/11 13:46 |
| S3 | 3 | "20030137909" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2012/01/11 13:48 |

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| S4 | 3 | "20030179669" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2012/01/11 13:55 |
| S5 | 2 | "20030193859" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2012/01/11 13:55 |

EAST Search History (Interference)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|-----------------------------|------------------|---------|------------------|
| L27 | 2 | ((record\$4 stor\$4) and layer and (second two double dual multi\$4 plural\$4) and (jump\$4 focus\$4 alternat\$4) and ((opposite near3 track) (circumferen\$4 near3 (inner outer)))) and updat\$4 and (information data)).clm. | US-PGPUB; USPAT; UPAD | OR | ON | 2012/01/12 14:32 |
| L28 | 276 | ((record\$4 stor\$4) and layer and (second two double dual multi\$4 plural\$4) and (jump\$4 focus\$4 alternat\$4) and updat\$4 and (information data)).clm. | US-PGPUB; USPAT; UPAD | OR | ON | 2012/01/12 14:32 |
| L29 | 104 | ((record\$4 stor\$4) and layer and (second two double dual multi\$4 plural\$4) and (jump\$4 focus\$4 alternat\$4) and updat\$4 and (information data) and (border area sector block)).clm. | US-PGPUB; USPAT; UPAD | OR | ON | 2012/01/12 14:33 |
| L30 | 36 | ((record\$4 stor\$4) and layer and (second two double dual multi\$4 plural\$4) and (jump\$4 focus\$4 alternat\$4) and updat\$4 and (information data) and (border area sector block) and address).clm. | US-PGPUB; USPAT; UPAD | OR | ON | 2012/01/12 14:33 |
| L31 | 272 | (369/30.03).CCLS. | US-PGPUB; USPAT; UPAD | OR | OFF | 2012/01/12 14:33 |
| L32 | 0 | 30 and 31 | US-PGPUB; USPAT; UPAD | OR | OFF | 2012/01/12 14:34 |
| L33 | 1 | 29 and 31 | US-PGPUB; USPAT; UPAD | OR | OFF | 2012/01/12 14:34 |